

# INTERNATIONAL SEARCH REPORT

Internat - Application No  
PCT/US 03/33396

**A. CLASSIFICATION OF SUBJECT MATTER**  
IPC 7 C11D3/37

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 C11D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6 221 833 B1 (COLURCIELLO JR ANDREW FRANCIS) 24 April 2001 (2001-04-24) claims; example 3	1-3,7-10
X	EP 0 353 388 A (DYNA 5 INC) 7 February 1990 (1990-02-07) column 8, line 41 -column 9, line 17; claim 19	1,3,8-10
A	US 6 425 959 B1 (MAN VICTOR F) 30 July 2002 (2002-07-30) claims	1-10
A	US 4 859 359 A (DEMATTEO JOHN A ET AL) 22 August 1989 (1989-08-22) claims	1-10

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

\* Special categories of cited documents :

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
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- \*O\* document referring to an oral disclosure, use, exhibition or other means
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- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*&\* document member of the same patent family

Date of the actual completion of the international search	Date of mailing of the International search report
3 March 2004	10/03/2004
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel: (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer  Pentek, E

**INTERNATIONAL SEARCH REPORT**

Information on patent family members

Internal Ref.	Application No
PCT/US 03/33396	

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
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US 6425959	B1	30-07-2002	AU BR CA EP JP WO US	3240400 A 0010986 A 2377318 A1 1187897 A1 2003503581 T 0100760 A1 6506261 B1	31-01-2001 12-03-2002 04-01-2001 20-03-2002 28-01-2003 04-01-2001 14-01-2003	
US 4859359	A	22-08-1989		NONE		